

**FIGURE 1**

# RESULTS

	Non-Failing +Ad.GFP	Failing +Ad.SERCA2a	Failing +Ad.GFP
Contraction Velocity $\mu\text{m/s}$	$20.3 \pm 3.7$	$22.4 \pm 1.7$	$16.5 \pm 2.9$ #
Relaxation Velocity $\mu\text{m/s}$	$30.6 \pm 10.6$	$21.4 \pm 1.3$	$14.2 \pm 1.7$ *
Diastolic $\text{Ca}^{2+}$ (nM)	$277 \pm 35$	$270 \pm 26$	$347 \pm 30$ #
Systolic $\text{Ca}^{2+}$ (nM)	$551 \pm 32$	$601 \pm 38$	$508 \pm 25$ #

\*  $p < 0.005$

#  $p < 0.05$

FIGURE 2

# RESULTS

## *Frequency Response*

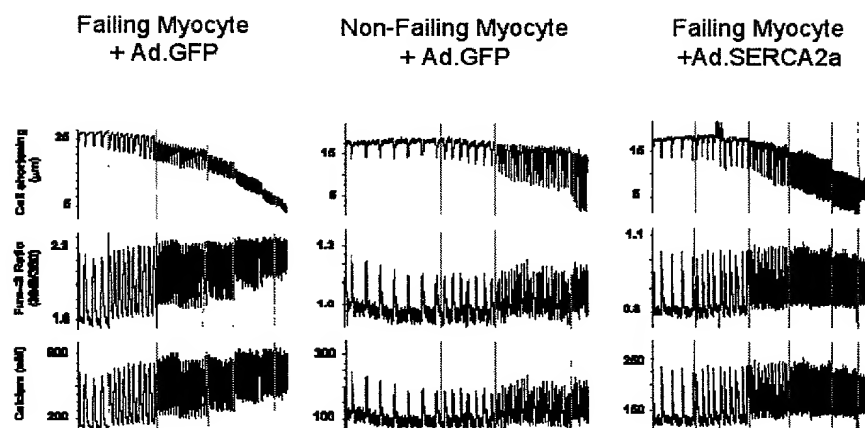


FIGURE 3

FIGURE 4

# Cell 1

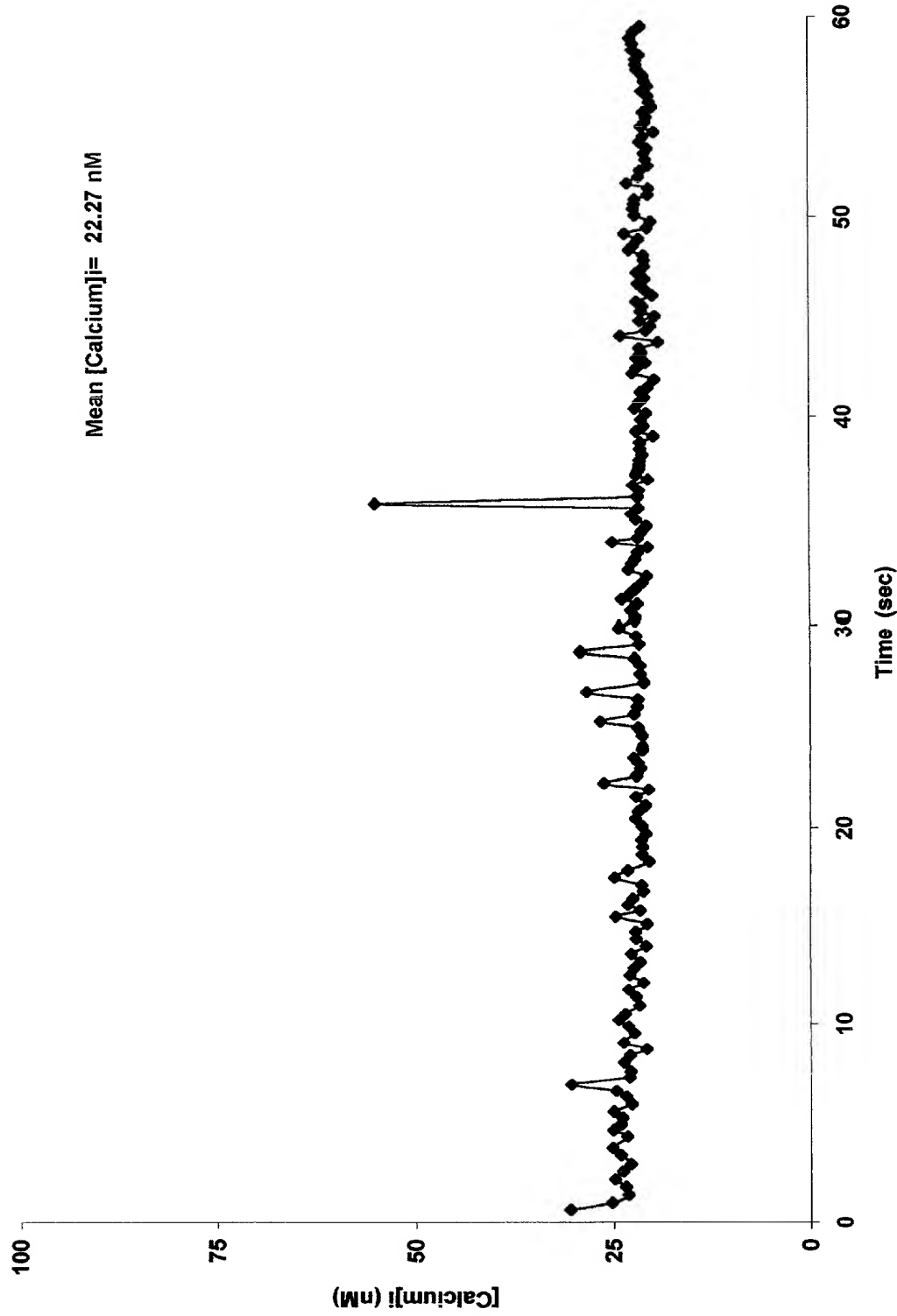


FIGURE 5

FOFAT " 50406560

## Cell 2

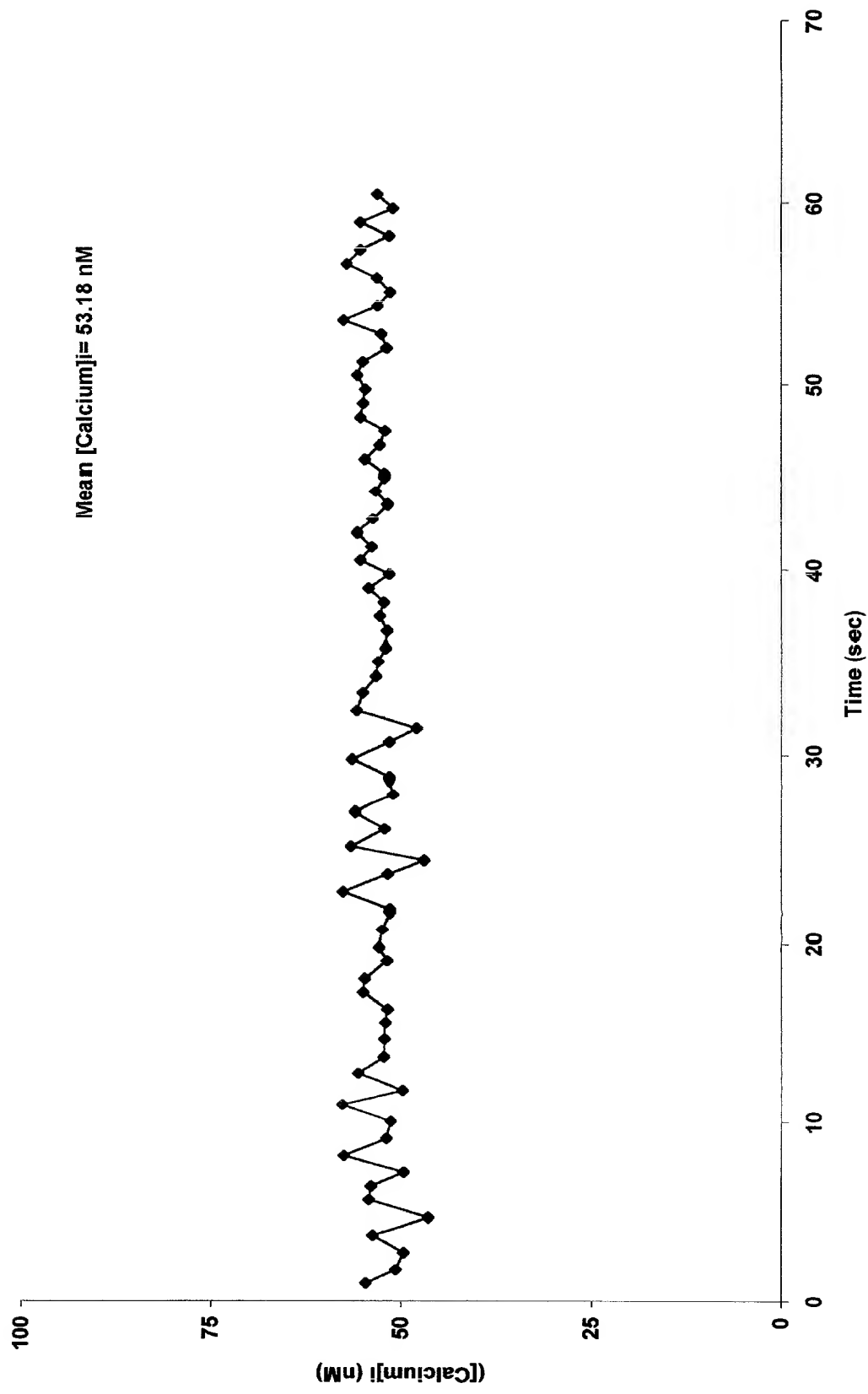


FIGURE 6

TOP LEFT: 50406660

### Cell 3

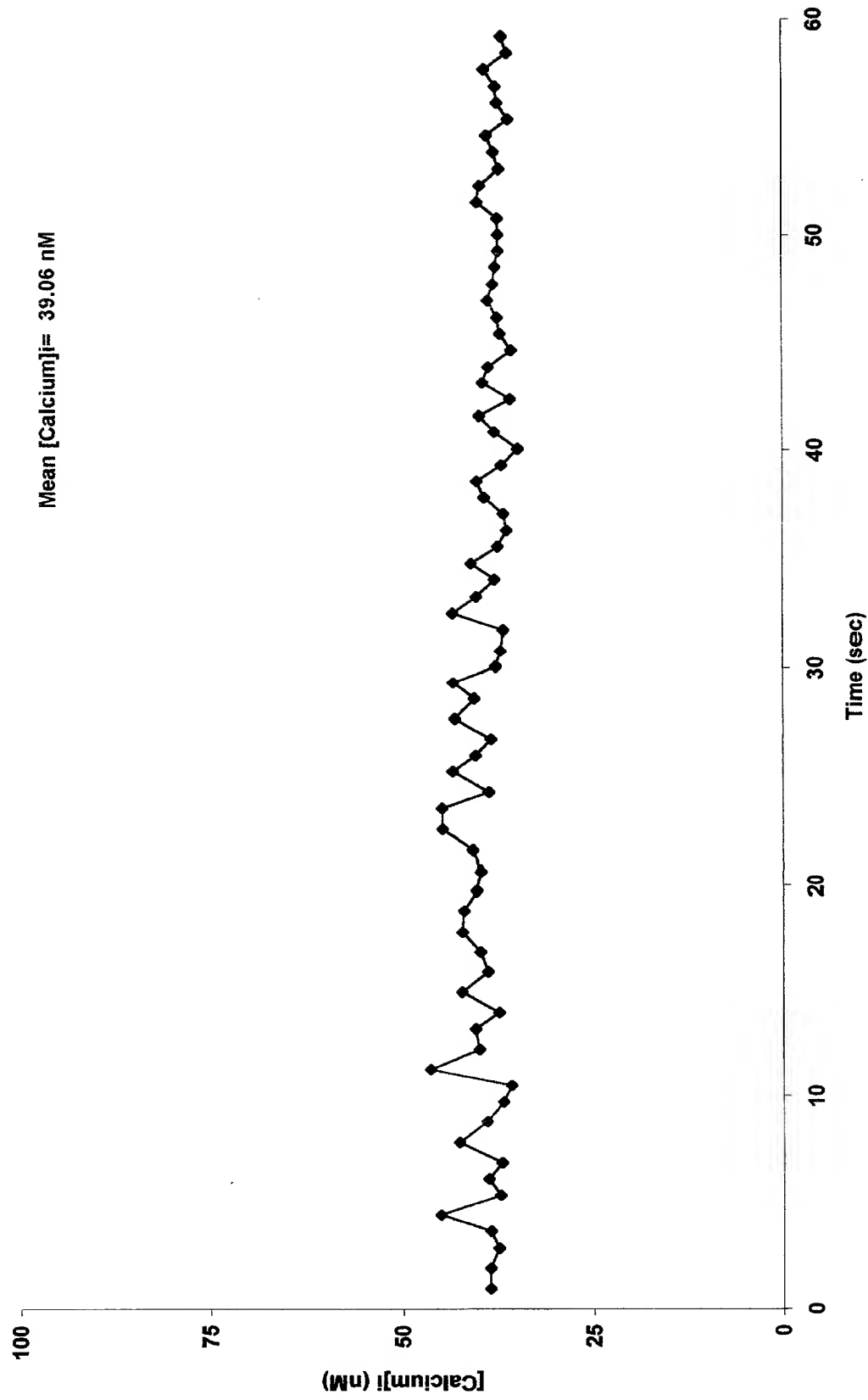


FIGURE 7

TOPP-5020650

## Cell 4

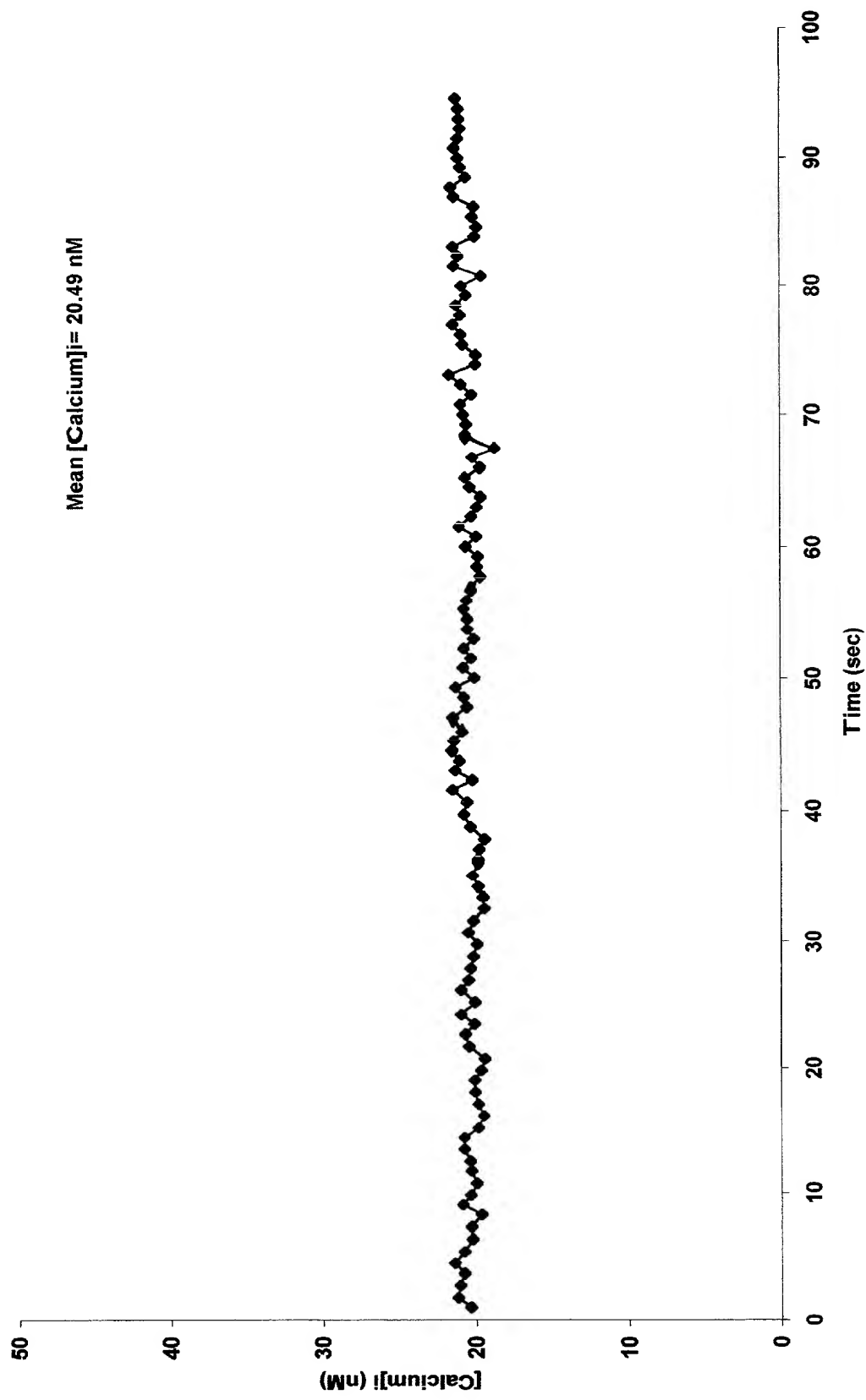
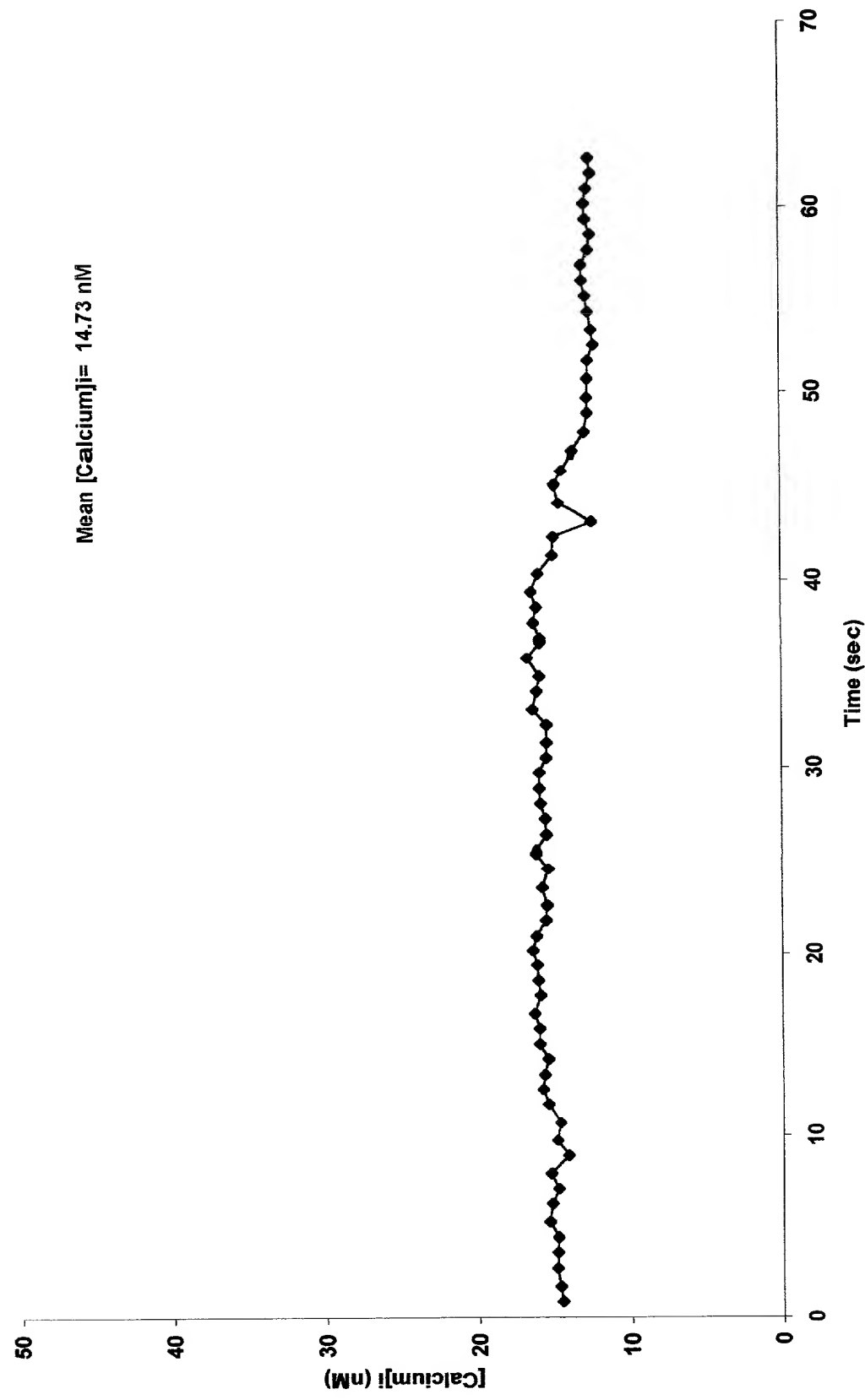


FIGURE 8

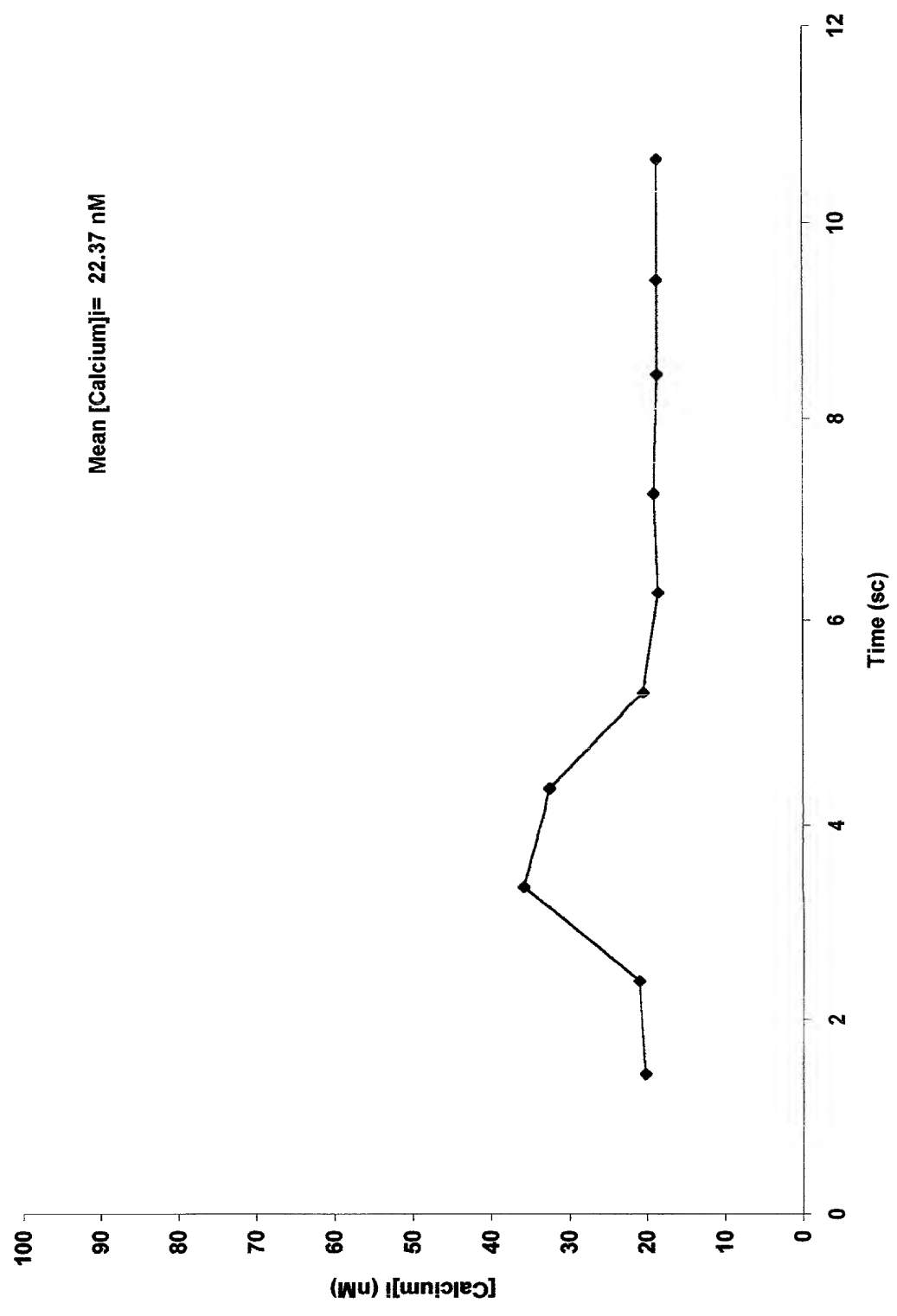
FOREF "S0206560

## Cell 5





Cell 6



**Mean [Calcium]<sub>i</sub> = 9.39 nM**

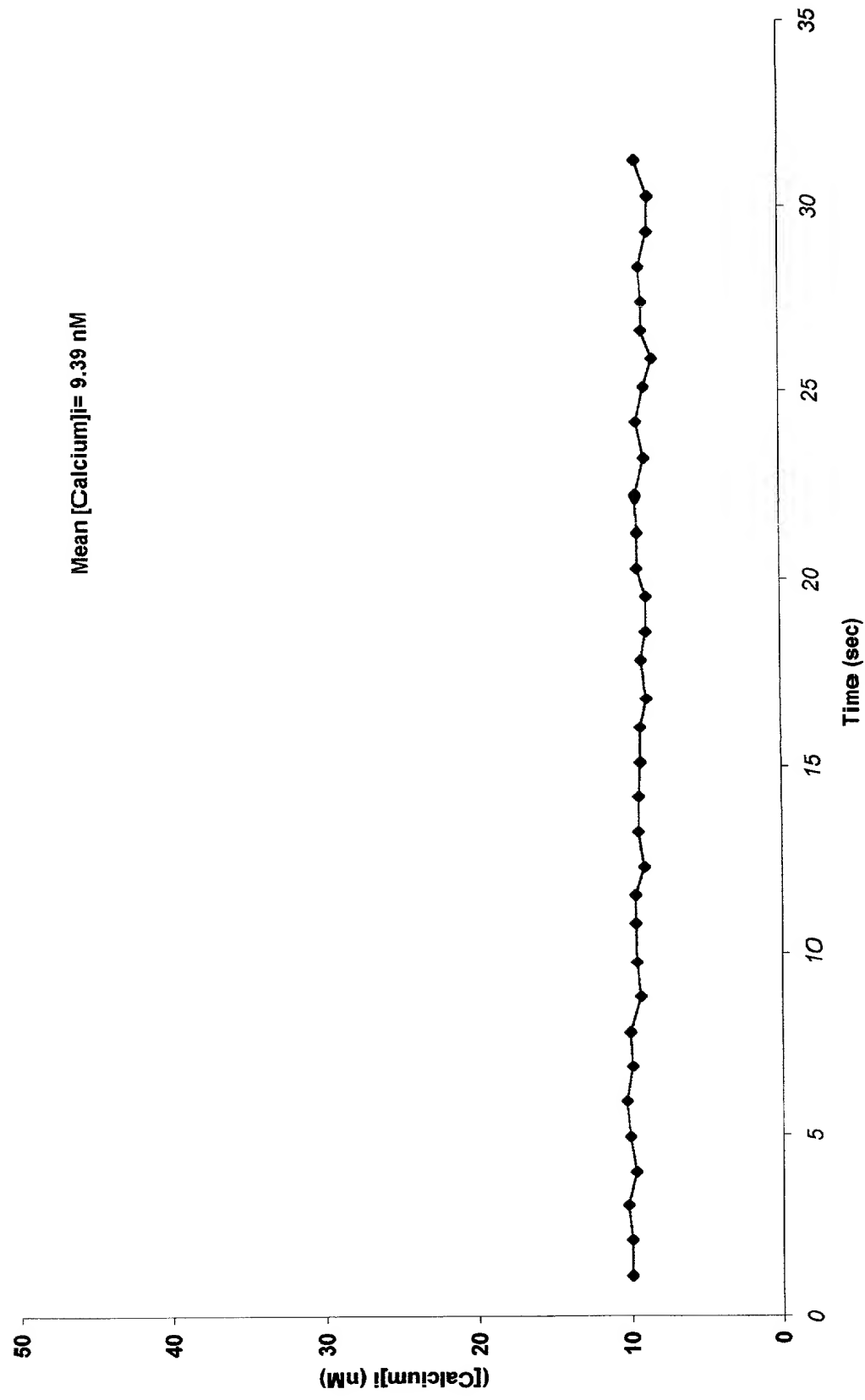


FIGURE 11

10.11.50.40.55.0

# Cell 8

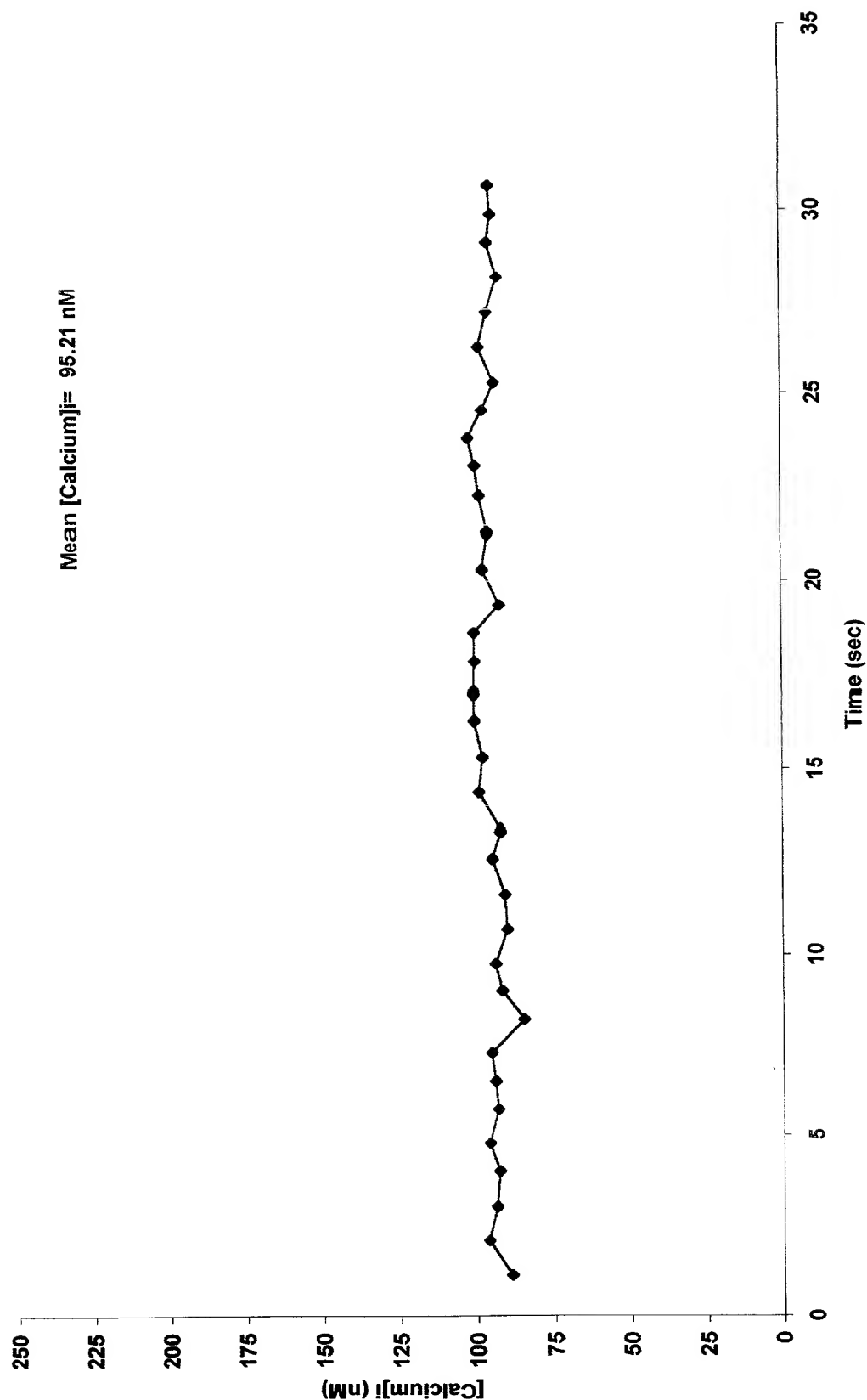


FIGURE 12

10.11.2019 10:06:50

## Cell 9

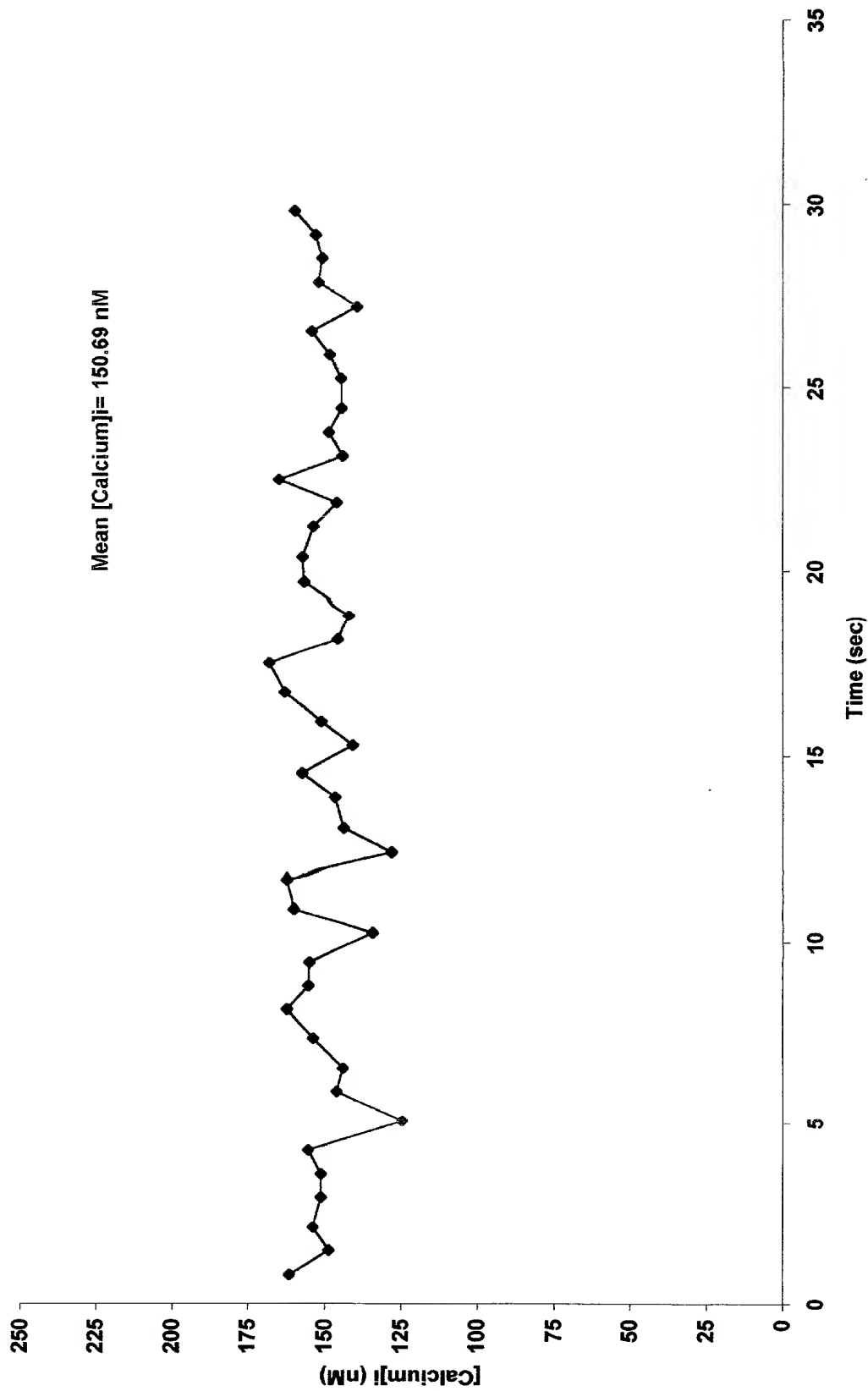


FIGURE 13

FOREF "S0206660

## Cell 10

